

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051818\
 Data File : VX001809.D
 Acq On : 18 May 2018 05:34
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 5/21/2018 2:40:34 PM

Quant Time: May 18 10:07:08 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 18 06:08:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	57810	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	273081	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	208212	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	114059	27.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.63%
60) 4-Bromofluorobenzene	11.14	95	95946	29.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.40%
63) Toluene-d8	8.72	98	316343	33.22	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	110.73%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	163889	66.14	ug/l	98
3) Chloromethane	1.32	50	309284	102.49	ug/l	100
4) Vinyl Chloride	1.40	62	278080	91.21	ug/l	99
6) Chloroethane	1.71	64	197668	95.61	ug/l	100
7) Trichlorofluoromethane	1.92	101	301845	71.60	ug/l	97
8) Diethyl Ether	2.19	74	214302	107.64	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	170668	73.25	ug/l	98
10) 1,1-Dichloroethene	2.37	96	210298	84.47	ug/l	100
11) Methyl Iodide	2.51	142	410908	110.67	ug/l	97
12) Methyl Acetate	2.78	43	521357	114.78	ug/l	99
13) Acrolein	2.30	56	296573	563.69	ug/l	99
14) Acrylonitrile	3.16	53	972974	541.88	ug/l	99
15) Acetone	2.45	58	264074	545.37	ug/l	99
16) Carbon Disulfide	2.56	76	562959	90.71	ug/l	99
17) Allvl chloride	2.73	41	479951	98.21	ug/l	98
18) Methylene Chloride	2.86	84	316938	102.78	ug/l	97
19) trans-1,2-Dichloroethene	3.16	96	258361	93.46	ug/l	95
20) Diisopropyl ether	3.88	45	1057129	111.75	ug/l	99
21) 1,1-Dichloroethane	3.70	63	521926	98.73	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	350103	109.01	ug/l	97
23) tert-Butyl Alcohol	3.09	59	411369	521.67	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	1003961	105.43	ug/l	100
25) Chloroform	5.22	83	557564	101.30	ug/l	99
26) Cyclohexane	5.57	56	309254	84.09	ug/l #	99
29) 1,1-Dichloropropene	5.80	75	317590	96.29	ug/l	99
30) 2-Butanone	4.72	43	1404081	601.19	ug/l	99
31) 2,2-Dichloropropane	4.59	77	187548	69.74	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	403966	95.73	ug/l	98
33) Carbon Tetrachloride	5.79	117	330438	90.28	ug/l	99
34) Benzene	6.15	78	1220543	110.38	ug/l	98
35) Methacrylonitrile	5.07	41	302064	119.79	ug/l	96
36) 1,2-Dichloroethane	6.20	62	454120	103.95	ug/l	100
37) Trichloroethene	7.22	130	332598	104.27	ug/l	97
38) Methylcyclohexane	7.46	83	315094	91.58	ug/l	96
39) 1,2-Dichloropropane	7.52	63	328113	116.82	ug/l	100
40) Dibromomethane	7.67	93	229921	114.17	ug/l	99
41) Bromodichloromethane	7.90	83	433371	115.68	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Vinyl Acetate	3.83	43	3685082	503.44	ug/l	99
43) Ethyl Acetate	4.87	43	529552	119.07	ug/l	99
44) Isopropyl Acetate	6.48	43	824959	121.78	ug/l	99
45) 1,4-Dioxane	7.76	88	199198	2506.29	ug/l	96
46) Methyl methacrylate	7.79	41	435419	119.86	ug/l	98
47) n-amyl Acetate	10.91	43	607308	109.53	ug/l	97
48) t-1,3-Dichloropropene	8.44	75	481042	117.24	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	440030	121.48	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	301314	103.05	ug/l	98
51) Ethyl methacrylate	9.19	69	469792	111.74	ug/l	99
52) 1,3-Dichloropropane	9.38	76	494174	103.08	ug/l	99
53) Dibromochloromethane	9.59	129	333079	110.38	ug/l	100
54) 1,2-Dibromoethane	9.68	107	320457	104.77	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	1367457	598.21	ug/l	99
56) Bromoform	10.87	173	292331	117.67	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	2732829	684.29	ug/l	98
59) 2-Hexanone	9.51	43	1784444	617.09	ug/l	99
61) Tetrachloroethene	9.34	164	305233	102.92	ug/l	99
62) Toluene	8.79	91	1224970	120.19	ug/l	100
64) Chlorobenzene	10.15	112	710814	108.91	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	298454	118.42	ug/l	99
66) Ethyl Benzene	10.26	91	1053106	104.05	ug/l	99
67) m/p-Xylenes	10.37	106	835853	207.11	ug/l	100
68) o-Xylene	10.71	106	436652	108.36	ug/l	98
69) Styrene	10.72	104	746779	111.58	ug/l	100
70) Isopropylbenzene	11.02	105	1006581	98.94	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	441069	120.96	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	423595m	119.92	ug/l	
73) Bromobenzene	11.26	156	350562	110.10	ug/l	98
74) n-propylbenzene	11.37	91	1079214	97.20	ug/l	100
75) 2-Chlorotoluene	11.43	91	718529	101.58	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	854496	99.94	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	113066	128.31	ug/l	83
78) 4-Chlorotoluene	11.52	91	809881	101.11	ug/l	99
79) tert-butylbenzene	12.07	119	885853	99.23	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	895852	102.31	ug/l	100
81) sec-Butylbenzene	11.95	105	946154	96.70	ug/l	99
82) p-Isopropyltoluene	12.07	119	885853	99.23	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	559326	102.94	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	564452	103.53	ug/l	99
85) n-Butylbenzene	12.40	91	690675	98.19	ug/l	99
86) Hexachloroethane	12.60	117	151568	105.41	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	600748	105.70	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	105994	126.45	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	421422	105.98	ug/l	99
90) Hexachlorobutadiene	13.79	225	192934	96.38	ug/l	98
91) Naphthalene	13.84	128	1493678	121.48	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	453815	106.69	ug/l	98

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

